

# Work Order ID 52615

October 5, 2009 8:03:10 AM



Page 1

Item ID:	D3445-041	Accept		Setup	Start	
Revision ID:	A				Stop	
Item Name:	Belt Assembly					
Start Date:	10/05/09	Start Qty: 6.00		Cust Item ID:		
Required Date:	10/16/09	Req'd Qty: 6.00		Customer:		
Reference:						

Approvals:	Process Plan: <u>CY</u>	Date: <u>09/10/05</u>	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr								
D3445	Rev A								

100		0.00							
	PURCHASING								
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>10515</u> <input type="checkbox"/> Belt Assembly as per Dwg D3445 <input type="checkbox"/> Material: MIL-W-4088 Type XVII, 1" Black Webbing <input type="checkbox"/> Possible Supplier: Tulmar Safety Systems <input type="checkbox"/> Material release note is required								

CY 09/10/05 (6)

110		0.00							
	Receive & Inspect for Damage & Mat'l Certs								
Packaging	Memo	0.00							
Packaging	Ensure Material Release Note is attached								

09/10/16 (4)

120		0.00							
	QC6- Inspect dimensions to drawing								
QC	Memo	0.00							
Quality Control									

8041019

(16)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_






NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			



NOTE: Date & initial all entries



**Work Order ID 52615**

Page 2

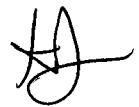
October 5, 2009 8:03:10 AM

Item ID: D3445-041 Accept  Setup Start   
Revision ID: A Stop   
Item Name: Belt Assembly  
Start Date: 10/05/09 Start Qty: 6.00  Cust Item ID:  
Required Date: 10/16/09 Req'd Qty: 6.00  Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start   
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop 

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130  Packaging	Identify as per dwg & Stock Location: <u>441</u>  Memo	0.00  0.00							
140  QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00  0.00							

9/10/19 

09/10/19 

MF  
09-10-19

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

October 5, 2009 8:03:10 AM

Page 1

Work Order ID: 52615



Parent Item: D3445-041RevA



Parent Item Name: Belt Assembly



Start Date: 10/05/09

Required Date: 10/16/09

Comments:

Start Qty: 6.00

Required Qty: 6.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3445-041PRevA		Purchased	No			110	Each	0.0000	6.0000			
												
Belt Assembly												

*10/16/09* *(C)*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

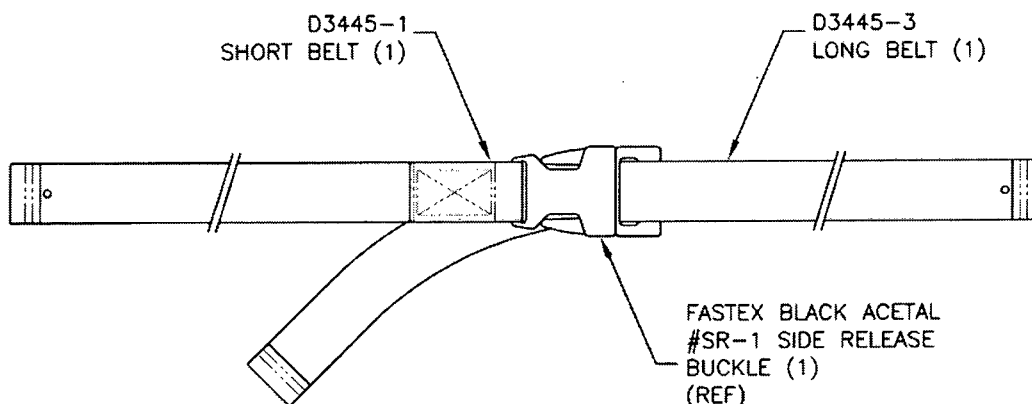
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3445	REV. A SHEET 1 OF 3
DATE 05.06.23		TITLE BELT ASSEMBLY	SCALE N/A
A	05.06.23	NEW ISSUE	

RELEASED  
*[Signature]*  
25/06/30



**D3445-041 BELT ASSEMBLY**  
**REPLACES PREMIER AVIATION P/N**  
**B67-43001-43**

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 52615

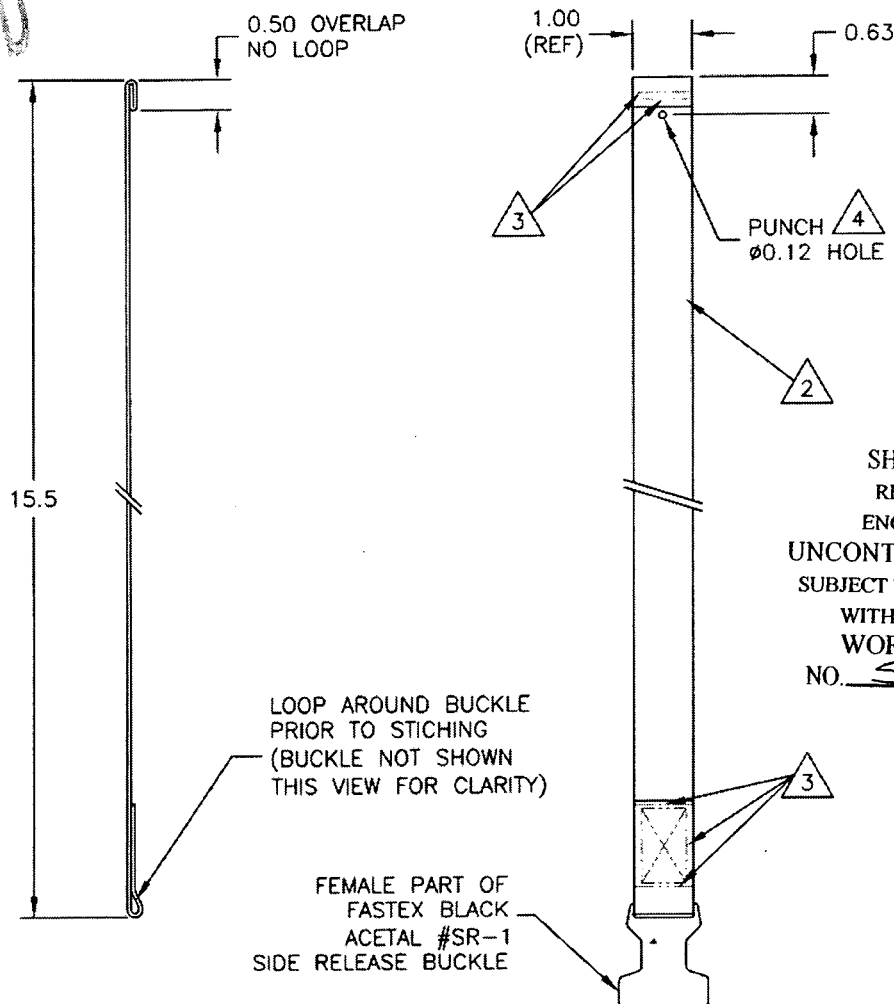
Copyright © 2005 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. D3445	REV. A SHEET 2 OF 3
DATE 05.06.23		TITLE SHORT BELT	SCALE N/A

RELEASED  
25/06/30



SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 52615

### **D3445-1 SHORT BELT**

**REPLACES PREMIER AVIATION P/N B67-43001-49**

#### **NOTES:**

- 1) POSSIBLE SUPPLIER: TULMAR SAFETY SYSTEMS INC.
- 2) MATERIAL: MIL-W-4088 TYPE XVII, 1" BLACK WEBBING
- 3) STITCH APPROX. AS SHOWN, PER ASTM-D6193
- 4) FUSE/HEAT-SEAL ENDS AFTER CUTTING AS WELL AS CIRCUMFERENCE OF PUNCHED HOLE
- 6) ALL DIMENSIONS ARE IN INCHES
- 6) TOLERANCES AS PER TULMAR'S:
  - +/- 0.08" FOR 0.00-1.99"
  - +/- 0.20" FOR 2.00-10.24"
  - +/- 0.40" FOR 10.25-20.05"
  - +/- 0.60" FOR 20.06-39.38"
  - +/- 2.5% FOR LARGER THAN 39.38"

**Copyright © 2005 by DART AEROSPACE LTD**

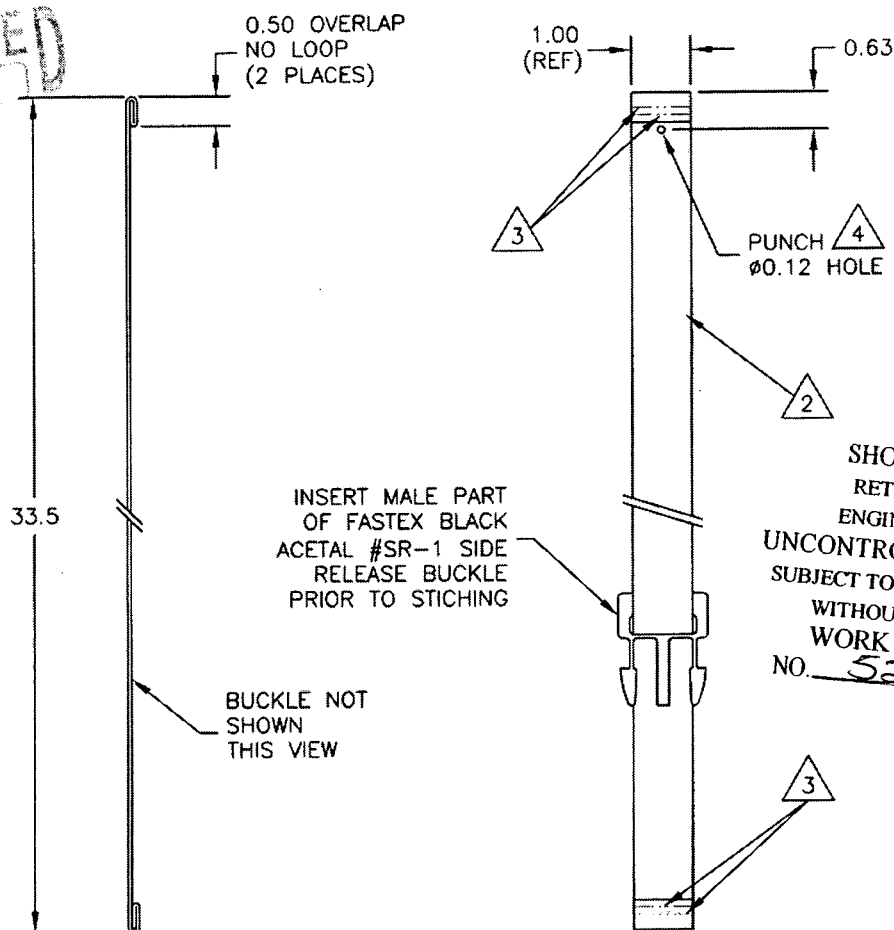
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.





DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3445	REV. A SHEET 3 OF 3
DATE 05.06.23		TITLE LONG BELT	SCALE N/A

RELEASED  
*[Signature]*  
05/06/30



### D3445-3 LONG BELT

REPLACES PREMIER AVIATION P/N B67-43001-353

#### NOTES:

- 1) POSSIBLE SUPPLIER: TULMAR SAFETY SYSTEMS INC.
- 2) MATERIAL: MIL-W-4088 TYPE XVII, 1" BLACK WEBBING
- 3) STITCH APPROX. AS SHOWN, PER ASTM-D6193
- 4) FUSE/HEAT-SEAL ENDS AFTER CUTTING AS WELL AS CIRCUMFERENCE OF PUNCHED HOLE
- 6) ALL DIMENSIONS ARE IN INCHES
- 6) TOLERANCES AS PER TULMAR'S:
  - +/- 0.08" FOR 0.00-1.99"
  - +/- 0.20" FOR 2.00-10.24"
  - +/- 0.40" FOR 10.25-20.05"
  - +/- 0.60" FOR 20.06-39.38"
  - +/- 2.5% FOR LARGER THAN 39.38"

Copyright © 2005 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

# PACKING SLIP

# TULMAR

# COPY

Packing Slip No.

**33939**

Ship Date

16-Oct-09

Tulmar Safety Systems Inc.  
1123 Cameron Street  
Hawkesbury, ON K6A 2B8 CA  
Tel: 613-632-1282  
Fax: 613-632-2030  
MID : XOTULSAF1123HAW  
email: info@tulmar.com

Bill To:

**Dart Aerospace**  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7. Canada

Ship to:

**Dart Aerospace**  
1270 Aberdeen Street  
Buyer: Chantal Lavoie  
Tel: 613-632-1053  
Hawkesbury, ON K6A 1K7. Canada

Order number

23759

Sales order date

5-Oct-09

Account number

CDART100

Account manager

Barney Bangs

PO number

10515

Ship Via

Pick-Up

Shipping Terms

FOB HAWKESBURY

Item No.

Quantity ordered

UOM

Qty Shipped/Returned

Quantity on back order

Description

8420

6

EA

6

Belt Ass'y, Black/1" web, Side release buckle,

Drawing No: D3445-041

DWG Rev: A

Line 1

Lot No: BATCH0000000007 Qty: 6

*8/16/09*

Shipper

*Rich Andrews*

Date:

*Oct 16/09*

## Certificate of Conformance

☐ Not Applicable

☐ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.

If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

*Baranne Lavoie*

Date:

*Oct 16/09*

## BALLY RIBBON MILLS

Qualified Lab  
List No. 1935  
(610)-845-2211

23 N. 7th Street  
Bally, PA 19503

09/23/08

Customer	TULMAR SAFETY SYSTEMS	Shipment	
Purchase Order No.	14786-00	Shipped Via	UPS COLLECT
Specifications	MIL-W-4088K CLASS 1 TYPE XVII COLOR CHIP #37030 P/N TSS2262B	Memo No.	326370
Contract No.	UV, MOULD, FUNGUS RESISTANT LOT#993982 04/08	Quantity	2233 YD
BALLY RIBBON MILLS Pattern No.	8941-1" BLACK NYLON WEBBING		

## CERTIFICATE OF CONFORMANCE

I certify that this pattern conforms with the physical, chemical, and visual quality of the Military Specifications listed above.



JEROME RICHARDS

QUALITY ASSURANCE MANAGER

FOR T83 8420

Drawing No D3445-041



**American & Efire Inc.**  
**Post Office Box - 507**  
**Mount Holly, NC -28120**

**Test Report**

Date : 10/5/2009

Mfg. Date : 7/9/2009

Lot Id : 615683

Quantity: 42.15

Product : Tex 90 BONDED 'Z' NYLON FILAMENT Black AA 63002 16 OZ

Specification : VT295E TPII CLA F BT92N4

Customer Order Number : 15245-00

Plys (Visual) : 4

Customer : Tulmar Safety

Twist Direction : Z

Shipped To : Tulmar Safety

A&E Color : 63002 Black  
AA

Characteristic	Test1	Test2	Test3	Test4	Test5	Average	Minimum	Maximum
Strength #1 (Pound)	15.3	15.4	15.5	15.1	15.4			
Strength #2 (Pound)	15	15.2	14.1	14.9	14.8			
Average Strength (Pound)						15.1	11.8	

Elongation #1 (Percent)	22.2	22.2	21.9	21.5	22			
Elongation #2 (Percent)	21	21.2	18.7	20.3	19.9			
Average Elongation (Percent)						21.1		26

Twist S #1 (Turns per inch)	12.5							
Twist S #2 (Turns per inch)	12.5							
Average Twist S (Turns per inch) Initial Twist						12.5		

Twist Z #1 (Turns per inch)	8.4							
Twist Z #2 (Turns per inch)	8.4							
Average Twist Z (Turns per inch) Final Twist						8.4	5.5	

Yield #1 (Yards/Pound)	4188.1							
Yield #2 (Yards/Pound)	4219.7							
Average Yield (Yards/Pound)						4203.9	3600	5200

Shade Evaluation: GOOD

Laundering: GOOD

Perspiration: GOOD

Wet Dry Cleaning: GOOD

Light Test: GOOD

TSS # 2530 / 34 (S)

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Signed :

*[Signature]*

/ Testing Director



This Certificate of Compliance is the property of American & Efird Inc. and may not be reproduced except in it's entirety.

TSS # 253 / 34. (2)